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(54) Title: OLEFINIC METATHESIS IN THE PRESENCE OF PHENOLIC COMPOUNDS

(57) Abstract: According to the present invention there is provided a metathesis reaction between at least two olefinic compounds which are the same or different, each olefinic compound comprising a non-cyclic olefin or a compound which includes a non-cyclic olefinic moiety. The metathesis reaction is carried out in the presence of a Grubbs first generation catalyst and is characterised therein that it is carried out in the presence of a phenolic compound in the form of a phenol or a substituted phenol, which substituted phenol includes at least one hydroxyl and at least one further moiety other than H and OH attached to an arene ring.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/06502

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C07C6/04 C07C7/20 C07C6/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07C B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>SAMAK, B A ET AL: "Dramatic solvent effects on ring-opening metathesis polymerization of cycloolekenes" JOURNAL OF MOLECULAR CATALYSIS. A, CHEMICAL., vol. 160, 2000, pages 13-21, XP002278753 ELSEVIER, AMSTERDAM., NL ISSN: 1381-1169 cited in the application page 13 page 16, column 1, line 3 - line 28</p> <p>----- -----</p>	1-24

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>NGUYEN S T ET AL: "SYNTHESIS AND ACTIVITIES OF NEW SINGLE-COMPONENT, RUTHENIUM-BASED OLEFIN METATHESIS CATALYSTS"</p> <p>JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US,</p> <p>vol. 115, no. 21, 1993, pages 9858-9859, XP002067273</p> <p>ISSN: 0002-7863</p> <p>cited in the application</p> <p>column 1</p> <p>table 1</p> <p>-----</p>	1-24
X		25
A	<p>SAMAK, B A ET AL: "Alternating ring-opening metathesis copolymerisation of bicyclo[2.2.1]hept-2-ene and cyclopentene"</p> <p>JOURNAL OF THE CHEMICAL SOCIETY, CHEMICAL COMMUNICATIONS., 1997, pages 2057-2058, XP002278754</p> <p>CHEMICAL SOCIETY. LETCHWORTH., GB</p> <p>ISSN: 0022-4936</p> <p>the whole document</p> <p>-----</p>	1-24